STEPANENKO, A.F.

Unit of mounted hydraulic drills for planting grapes. Trakt.i sel'khozmash. 31 no.2:35 F '61. (MIRA 14:7)

1. Vserossiyskiy nauchno-issledovatel'skiy institut mekhanizatsii i elektrifikatsii sel'skogo khozyaystva.

(Boring machinery)

STEPANENKO, A. G.

Stepanenko, A. G. "Reaction of Various Strains of Sugar Beet to Root Rot," <u>Naukovi</u> Zapiski z Tsukrovoi Promislovosti, vol. 10, no. 3-4, 1930, pp. 325-336. 65.9 K544

So: SIRA - Si - 90-53, 15 Dec 1953

STEPANENKO, A. G.

"Gas Metabolism and Changes in the Oxidation Processes in an Isolated Tissue During Experimental Shock." Cand Biol Sci, Second Moscow State Medical Inst imeni 1. V. Stalin, Moscow, 1955. (KL, No 11, Mar 55)

SO: Sum. No. 670, 29 Sep 55-Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (15)

DERVIZ, G.V. [Dervyz, H.V.]; STEPAMENKO, A.G. [Stepanenko, A.H.]

Distribution in the blood and organs and the excretion from the body of polyglucin after its administration into the blood stream. Ukr. biokhim. zhur. 33 no.4:467-475 '61. (MIRA 15:6)

1. Central Order of Lenin Institute of Hematology and Blood Transfusion of the Ministry of Health of the U.S.S.R., Moscow. (DEXTRAN)

KONDRATYUK, Pavel Ivanovich; STEFANENKO, A.I., inzh., retsenzent; PILIPENKO, Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Machines for the over-all mechanization of hay harvesting]
Mashiny dlia kompleksnoi mekhanizatsii uborki trav na seno.
Moskva, Mashgiz, 1962. 156 p. (MIRA 15:7)
(Hay-Harvesting) (Harvesting machinery)

VENDRIKH, German Aleksandrovich; RYABTSOVSKIY, Mikhail Ivanovich;
STEPANCHENKO, A.I., red.; TRUSHKINA, T.M., tekhn.red.

[Irkutsk under construction] Stroiashchiisia Irkutsk. [Irkutsk]
Irkutskoe knizhnoe izd-vo, 1956. 134 p. (MIRA 11:1)

(Irkutsk-Description)

BROYDO, Solomon Moiseyevich; STEPANCHENKO, A.I., red.; SOROKINA, T.I., tekhn.red.

[Beyond the 62nd parallel] Za 62-i parallel'iu. [Irkutsk]
Irkutskoe knizhnoe izd-vo, 1957. 181 p. (MIRA 11:3)

(Siberia--Description and travel)

BUBLIKOV, V.V.; KLUGMAN, T.Yu.; STEPANENKO, A.L.

Continuous-action moisture meter for commercial petroleum.

Neft. khoz. 43 no.8:60-62 Ag '65.

(MIRA 18:12)

BEYLIN, M.I., kand.tekhn.nauk; KHADZHIOGLO, A.V.; BUTKO, V.I.; STEPANENKO, A.M.; SIPOVICH, S.Yu.; LITMANOVICH, I.M.

Experiment in coal slurry drying in a fluidized bed. Koks i khim. no. 11:18-20 '63. (MIRA 16:12)

1. Khar'kovskiy institut gornogo mandana irryaniya, avtomatiki i vychislitel'noy tekhniki (for Beylin, Knadzhlegor, imiko, Stejanerko). 2. Yasinovskiy koksokhimicheskiy zavod (for Sipovien, Litmanovich).

BEYLIN, M.I., kand. tekhn. nauk; STEPANENKO, A.M.

Studying the drying of common salt in a fluidized bed. Soor. nauch. trud. UkrNIISol' no.7:111-116 '64 (MIRA 18:1)

STEPANENKO, A.M.

New design of mixer for the sintering of charge components.

Met. i gornorud. prom. no.2:74 Mr-Ap '65.

(MIRA 18:5)

YAKIMUK, P.G., inshener-mekhanik; VASILYUK, N.F.; GAL'PERIN, L.Yu.;
ZATTSEV, T.F.; KARPEN'KO, S.A.; STEPANENKO, A.H.; YAVGRSKIY, A.A.;
SHAGOMYALO, V.I., redaktor; GURZHIY, N.Te., tekhnicheskiy redaktor

[Tractor operator's manual] Spravochnik traktorista. Isd. 4-oe,
perer. i dop. Kiev, Gos. 12d-vo selkhos. lit-ry USSR, 1955. 519 p.

(Tractors-Handbooks, manuals, etc)

(MIRA 9:1)

VASILYUK, N.F.; GAL'PERIN, L.Yu.; ZAYTSEV, T.F., KARPENKO, S.A.; STRPAHENKO,
A.H.: YAYORSKIY, A.A.; YAKIMUK, P.G., inzhener-mekhanik, redaktor;
KOZAK, F.Ye., redaktor; CHEREVATSKIY, S.A., tekhnicheskiy redaktor

[Handbook for tractor operators] Spravochnik traktorista. Izd. 5-0e,
porer. i dop. Kiev. Gos. izd-vo sel'khoz. li:-ry USSR, 1956. 471 p.

(Tractors)

(MIRA 10:4)

ZAYTSEV, T.F.; KARPENKO, S.A.; NESVITSKIY, Ya.I., kandidat tekhnicheskiy nauk; STEPANENKO, A.N.; YAVORSKIY, A.A.; SHAGOMYALO, V.I., redaktor; KRAVCHENKO, M.F., tekhnicheskiy redaktor

[Tractor brigade leader's manual] Spravochnik brigadira traktornoi brigady. Izd. 2-oe, dop. Kiev, Gos. izd-vo sel'khoz. lit-ry USSR, 1956. 483 p. (MLRA 10:4) (Tractors)

OS'MAK, Illerion Terent'yevich; IRODOV, Aleksandr Vyacheslavovich;

STEPANENKO, Aln., inzh., retsenzent; DAVIDENKO, N.M., retsenzent;

SERDYUK, V.K., inzh., red.; RUDENSKIY, Ye.V., tekhn.red.

[Corn-harvesting machinery] Mashiny dlia uborki kukuruzy. Kiev,

Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1957.276 p.

(Corn picker (Machine))

(MIRA 11:4)

OS'MAK, Illarion Terent'yevich, kand.tekhn.nauk; STEPANENKO, A.N., red.; MATIYKO, O.M. [Matiiko, O.M.], red.; TUBOLEVA, M.V. [Tubolieva, M.V.], red.

[Over-all mechnisation of corn harvesting] Kompleksna mekhanisatsiia sbyrannia kukurudsy. Kyiv, 1958. 47 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh snan' Ukrains'koi RSR. Ser.3, no.2)
(MIRA 12:3)

(Corn (Maise) -- Harvesting)

Experience of work brigades in the over-all mechanisation of corn growing. Mekh.sil., hosp. 9 no.12:8-9 D 58.

(Agricultural machinery) (Corn (Maise))

STEPANENKO, A.N.

Advice to collective farm machinery operators on the organization of their work. Mekh.sil'.hosp. 10 no.11:8-9 N '59. (MIRA 13:3)

1. Glavnyy inzhener po ekspluatatsii traktorov, Ministerstvo sel'skogo khozyaystva USSR.

(Farm mechanization)

STEPAHENKO, A.N.

For wider introduction of increased speeds operating tractor-driven machinery. Mekh. sil*. hosp. 11 no.7:3-5 J1 *60.

(MIRA 13:10)

1. Glavnyy inzhener po ekspluatatsii traktorov Ministerstva sel'skogo khozyzystva USSR.

(Agricultural machinery)

Safety measures in operating tractors. Mekh. sil'. hosp. 11 no.11:17(MIRA 13:11)

(Tractors—Safety measures)

Safety measures for operating soil cultivating, sowing, planting, and harvesting machinery. Makh. sil's hosp. 11 no.12:20 D '60s (MIRA 13:12)

(Agriculture—Safety measures)

STEPANENKO, ANDREY NAUMOVICH

[How highly efficient operators in Odessa Province work] Tak pratsiuiut shvydkisnyky Odeshchyny. Kyiv, Derzh. vyd-vo sil'skohospodars'koi lit-ry URSR, 1961. 16 p. (MIRA 15:5) (Odessa Province—Agricultural machinery)

Safety measures in operating feed-preparing machinery. Mekh.
Safety measures in operating feed-preparing machinery. Mekh.
sil'. hosp. 12 no. 1:26-27 Ja '61. (MIRA 14:1)
(Agriculture—Safety measures)

STEPANENKO, A.N., inzh.

Duties of the collective farm machinery operator. Mekh. sil. hosp.
12 no. 2:30 F '61.

(Agricultural machinery—Maintenance and repair)

STEPANEHKO, A.N.

The quality of the technical maintenance of machinery depends on good organization. Mekh. sil'. hosp. 13 no.8:21-22 Ag '62. (MIRL 15:7)

1. Nachal'nik Upravleniya proizvodstvenno-tekhnicheskogo obsluzhivaniya ob"yedineniya "Ukrsil'gosptekhnika".

(Tractors—Maintenance and repair)

(Motortrucks—Maintenance and repair)

STEPANENKO, A. N., inzh.; ZAL'TSMAN, I. N.

Answers to readers. Mekh. sil'. hosp. 14 no.1:32 Ja '63. (MIRA 16:4)

1. Ministerstvo proisvodstva i sagotovok seliskokhozyaystvennykh produktov UkrSSR (for Zalitsman).

(Tractors—Engines) (Agricultural wages)

STEPANENKO, A.N.

How to build a field camp for a tractor brigade. Mekh. sil'. (MIRA 16:10) hosp. 14 no.4:29-31 Ap '63.

l. Nachal'nik upravleniya proizvodstvenno-tekhnicheskogo obsluzhivaniya Ukrainskogo respublikanskogo obsyedimeniya "Ukrsil'gosptekhnika".

STEPANENKO, A.N.

Maintain machinery in a businesslike manner. Mekh. sil'. hosp. 14 no.11:12-14 N'63. (MIRA 17:2)

l. Nachal'nik upravleniya proizvodstvenno-tekhnicheskogo obsluzhivaniya respublikanskogo ob"yedineniya "Ukrsil'gosptekhnika".

STEPANENKO, A.P.:

STEPANENKO, A.P.: "The effect of operative treatment of certain forms of goiter on the antitoxic functions of the liver and on the content of potassium and calcium in the blood serum". Kiev, 1955. Kiev Order of Labor Red Banner Medical Inst imeni Academician Bogomolets. (Dissertations for the Degree of Candidate of Medical Sciences.)

So. Knizhnaya letopis'. No. 49, 3 December 1955. Moscow.

STEPANENKO, A.P. (Kiyev)

Antitoxic function of the liver and its modification following surgical therapy of various forms of goiter. Probl. endok. i gorm. 2 no.1:35-36 Ja-F '56. (MIRA 9:10)

1. Iz kafedry khirurgicheskikh bolezney (zac. - zasluzhennyy deyatel* nauki prof. A.K.Gorchakov) Kiyevskogo meditsinskogo stomatologicheskogo instituta.

(GOITER, surgery postop. liver funct. test (Rus))
(LIVER FUNCTION TESTS, in various diseases, goiter, eff. of surg. (Rus))

GORCHAKOV, A.K., prof., zasluzhennyy deyatel nauki; STEPANENKO, A.P., kand.med.nauk; ROMASHKAN, N.V.

Postthyrotoxic hypertension; preliminary report. Vrach.delo no.11: 1159-1162 N '59. (MIRA 13:4)

1. Kafedra khirurgii (zaveduyushchiy - zasluzhennyy deyatel' nauki, prof. A.K. Gorchakov) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo instituta i gorodskoy protivozobnyy dispanser.

(GOITER) (HYPERTENSION)

GORCHAKOV, A.K., zasluzhennyy deyatel' nauki, prof. (Kiyev, Bessarabskaya pl.,, d.5,kv.38); STEPANENKO, A.P., kand.med.nauk; ROMASHKAN, N.V.

Treatment of hypothyreosis and hypoparathyreosis. Nov. khir. arkb. no.1:39-41 Ja-F '60. (MIRA 15:2)

1. Kafedra fakul'tetskoy khirurgii (zav. - prof. A.K.Gorchakov) stomatologicheskogo fakul'teta Kiyevskogo meditsinskogo instituta. (THYROID GLAND__DISEASES) (PARATHYROID GLANDS__DISEASES)

STEPANENKO, A.P.; FOMENKO, L.I.

Oxygen therapy in the hyperthyroid form of goiter. Vrach. delo no.8:124-125 Ag 60. (MIRA 13:9)

1. Kafedra khirurgii steomatologicheskogo fakul'teta (zav. - zasluzhennyy deyatel' nauki, prof. A.K. Gorachkov) Kiyevskogo meditsinskogo instituta.

(GOITER) (OXYGEN—THERAPEUTIC USE)

STEPANENKO, A. P., kand. med. nauk; ROMASHKAN, N. V., kand. med. nauk

Use of splenin in treating some endocrine diseases. Vrach. delo no.7:128-129 J1 62. (MIRA 15:7)

1. Kiyevskiy meditsinskiy institut i Kiyevskiy gorodskoy protivezobnyy dispanser.

(SPLENIN) (ENDOCRINE GLANDS—DISEASES)

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ACC NR. AT6008147

AUTHOR: Saykovskiy, M.I.; Dorfman, A.Sh. (Candidate of technical sciences); Didenko,

O.I.; Kusyuk, A.I.; Stepanenko, A.P.

ORG: None

TITLE: Results of aerodynamic investigation of the compressor intake on models and in full scale

SOURCE: AN UKrSSR. Techeniya zhidkostey i gazov (Flows of liquids and gases) Kiev, Naukova dumka, 1965, 72-80

TOPIC TAGS: compressor design, aerodynamic test, test model

ABSTRACT: The paper describes scale model and full scale aerodynamic tests on compressor intakes. Rigidly oriented 3-channel total : pressure tubes installed in a rotatable ring were used to measure the flow turning angle, velocity, and total air pressure Schematics of the compressor intake are shown. The energy loss coefficient, &, of the intake was calculated from the average loss of total pressure, Δ_0 , the average ram den sity, ρ , the average normal velocity, v_n , and the compressibility correction factor δ ($\delta = 1 - M^2/4$) using: $\xi = 2\Delta_0/\rho_0 \cdot v_n$. (1) Conditions and measurement results are given for 12 design variants. All variants show a fairly uniform distribution of velogiven cities over the cross sections. Losses are comparatively low in all variants, somewhat

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DORFMAN, A.Sh., kand.tekhn.rauk; CAYKOVSKIY, M.I., kand.tekhn.nauk; DIDENKO, C.I., inzh.; SizakaNEMAO, A.P.

Results of the aerodynamic operation of the exhaust ducts of the GT-6-750 gas turbine system. Energonashinostroenie. 11 no.2:17-20 F 165. (MIRA 18:4)

L 41078-65 EPA/EVIT(1)/EWP(m)/EWP(f)/EPF(n)-2/EPR/T-2/EPA(bb)-2/FCS(k)/EWA(1) Pd-1/Paa-4/Ps-4/Pi-4 WW

ACCESSION NR: AP5005835

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41

AUTHOR: Dorfman, A. Sh. (Candidate of technical sciences); Saykovskiy, M. I. (Candidate of technical sciences); Didenko, O. I. (Engineer); Stepanenko, A. P. (Engineer)

TITLE: Results of <u>aerodynamic testing of pipe models of GT-6-750 gas-turbine</u>

SOURCE: Energomashinostroyeniye, no. 2, 1965, 17-20

TOPIC TAGS: gas turbine, exhaust duct, inlet duct / GT-6-750 gas turbine

ABSTRACT: Results of the designing and aerodynamic testing of models of the turbine exhaust duct and compressor inlet duct are reported. Five variants of the exhaust duct (dimensions tabulated) were tested by integral methods within

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ACCESSION NR: AP5005835

and diagonal entrances — of the inlet ducts were tested; each variant had two modifications (0.73 and 0.71 hub-tip ratios). It is found that: (1) Increasing the axial dimension of the exhaust duct to a certain limit results in its higher

4 formulas, and 2 tables.

ASSOCIATION: none

SUBMITTED: 00 ENCL: 00 SUB CODE: PR

NO REF SOV: 001 OTHER: 000

STEPANENKO, A.S., dotsent

Effect of arginine on enzyme activity in tissue respiration in mice with transplanted cancer. Report No.1: Effect of arginine on succinand cytochromeoxidases of the heart, kidneys and the tumor in transplanted cancer in mice. Trudy OMI no.25:183-190 59.

(MIRA 14:10)

1. Iz kafedry biokhimii Omskogo meditsinskogo instituta imeni Kalinina, zav. kafedroy dotsent A.S.Stepanenko.

(CANCER) (ARGININE)

STEFANENKO, Aleksey Stepanovich; LEFIN, A.E., red.; FRESHOVA, V.A., tekhn. red.

[Progressive grinding methods] Progressivnye metody shlifovanita. Leningrad, Lenizdat, 1963. 57 p.

(MIRA 17:1)

1. Shlifovshchik stankostroitel'nogo zavoda izeni Sverdlova,

(Grinding and polishing)

Leningrad (for Stepanenko).

BAD'INA, I., domokhozyayka (g.Ul'yanovsk); STEPANENKO, B. (g.Ul'yanovsk); KACANOV, L. (g.Ul'yanovsk)

Behind the screen of unavoidable causes. Prom.koop. 12 no.12: 37 D 58. (MIRA 12:2)

1. Reydovaya brigada zhurnala "Promyslovaya kooperatsiya" (for all). 2. Sotrudnik redaktsii gazety "Ul'yanovskaya pravda" (for Stepanenko). 3. Spetsial'nyy korrespondent zhurnala "Promyslovaya kooperatsiya" (for Kaganov).

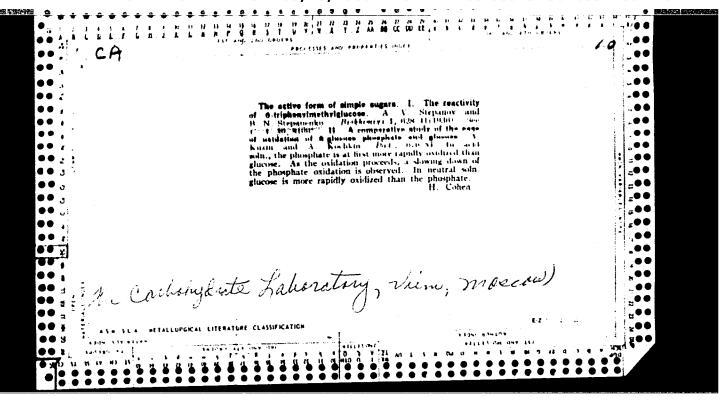
(Ul'yanovsk Province-Shoe manufacture)

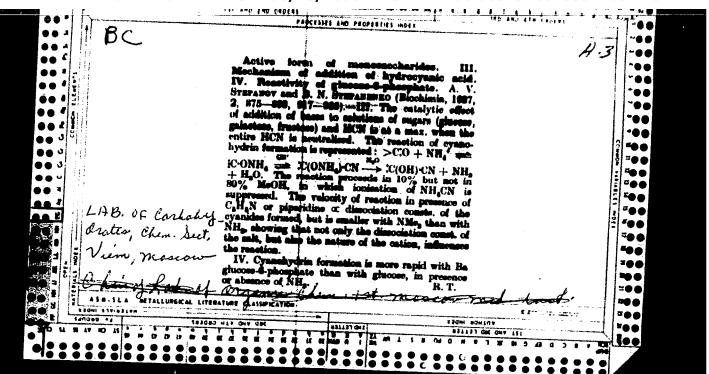
The factory has three thousand gardeners. Sov.profesoinzy 7 no.9:33 My '59. (AIRA 12:8) (Chelyabinsk--Morkingmen's gardens)

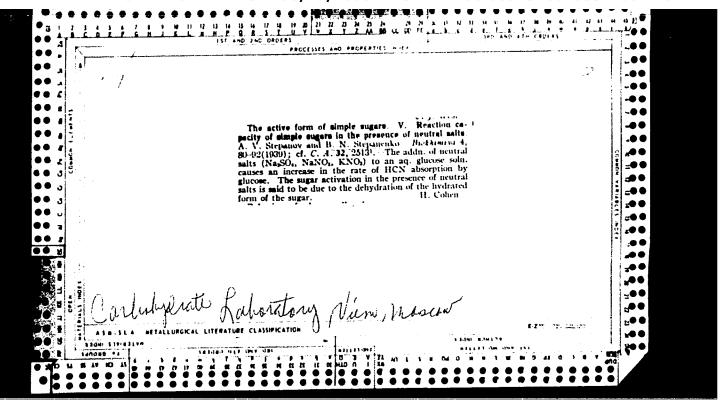
STEPANENKO, B.N.; BLAGOVIDOVA, Yu.A.; BELUVA, O.I.

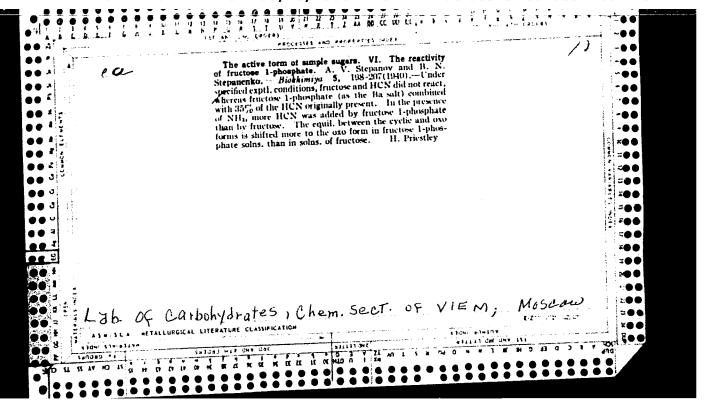
Current statue and prospects of the use of high molecularweight compounds in pharmacy. Apt. delc 12 no.213-15 Mr-Ap '63. (MIRA 17:7)

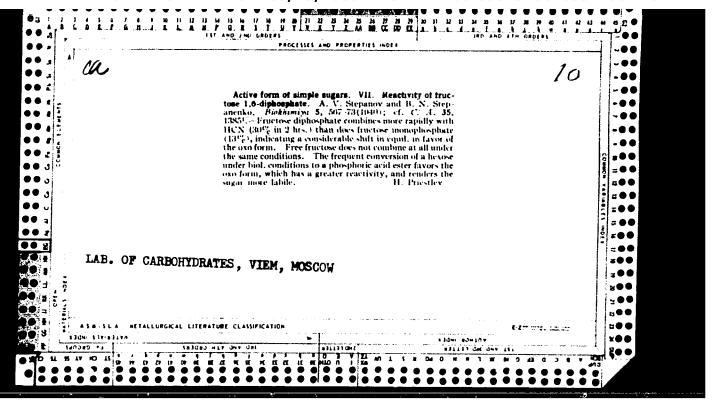
1. I Moskovskiy ordena lenina meditsinskiy institut imeni I.M. Sechenova i TSentral'nyy aptechnyy nauchno-issledovatel'skiy institut.

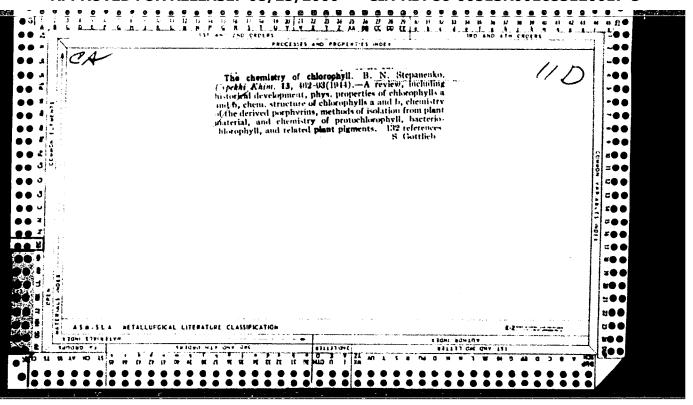


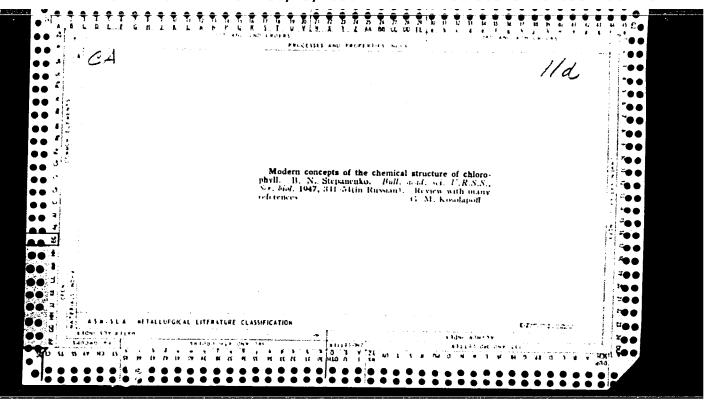


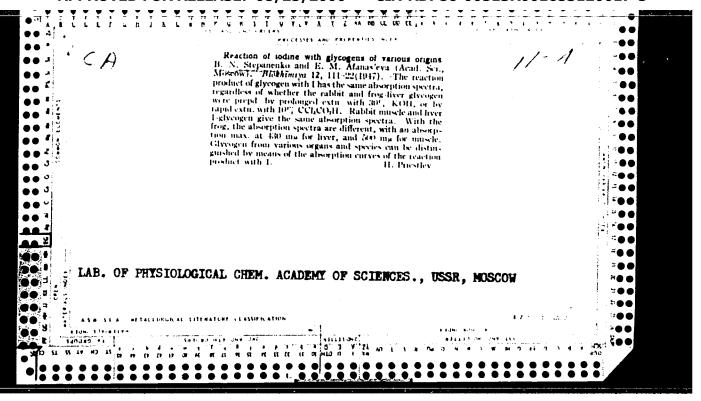


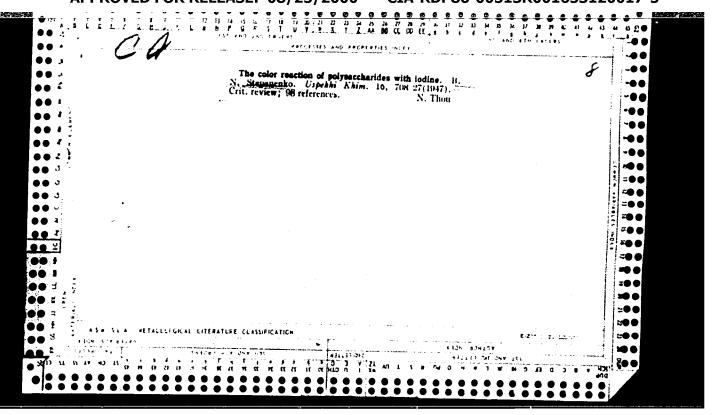


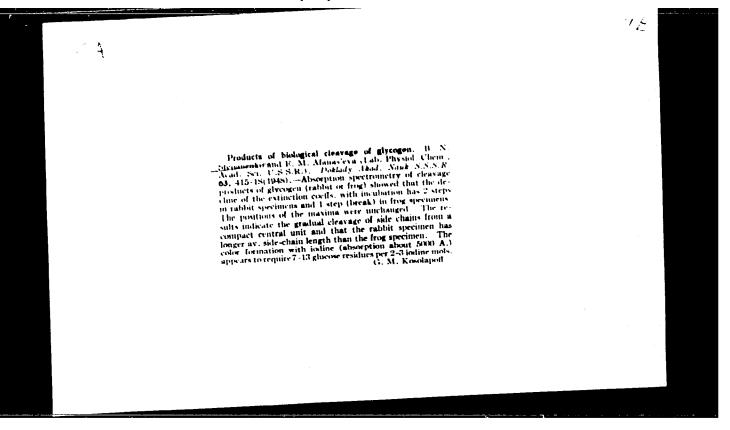












ZBARSKIY, B.I., prof.; ZBARSKIY, I.B.; SOLNTSEV, A.I.; STEPANENKO, B.N., red.; DEMKINA, A., tekhn. red.

[Laboratory manual of biological chemistry] Praktikum po biologicheskoi khimii. Moskva, Medgiz, 1949. 223 p. (MIRA 15:4) (BIOCHEMISTRY—LABORATORY MANUALS)

STEPANENKO, B. N.

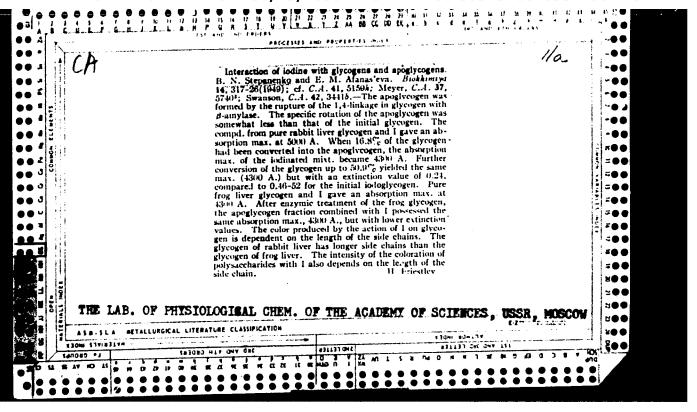
25625. STEPANENKO, B. N. i AFANAS'YEVA, Ye. M. O vzaimoleystvii s iodom glikogenov i apoglikogenov. Biokhimiya, 1949, VYP.4, s.317-26 --- Bibliogr: 11 nazu.

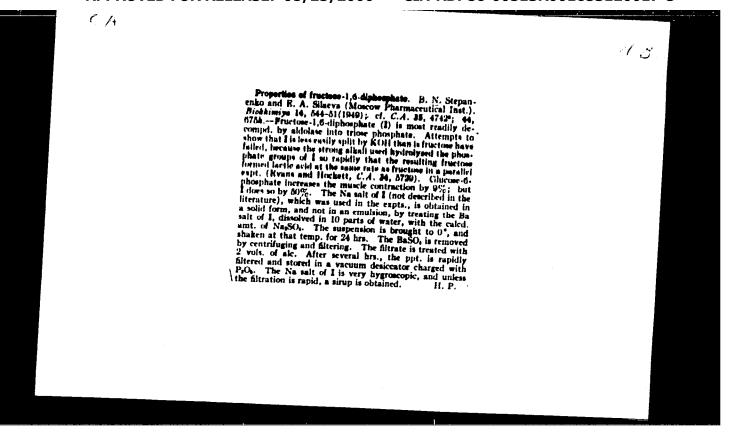
SO: Letopis' Zhurnal' Nykh Statey, Vol. 34, Moskva, 1949.

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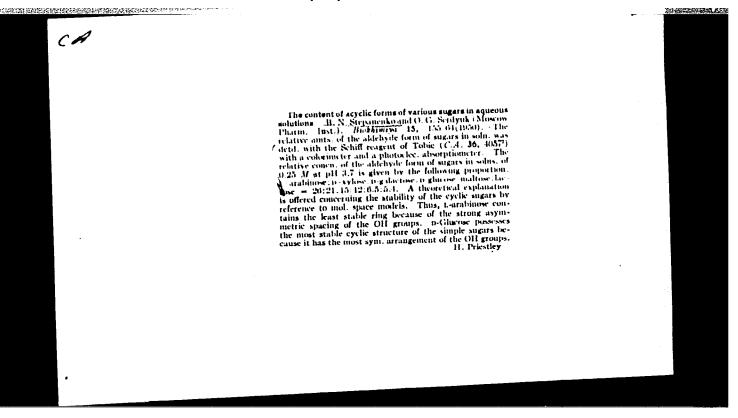
38032. STEPANENKI, B. N. and SILAYEVA, YE. A.

O NYEKOTORYKH SVOYSTVAKH 1, 6 - DIFOSFATA FRUKOZY. BIOKHIMIYA, 1949, VYP. 6, S. 544-51 - BIBLIOGR: 16 NAZV.



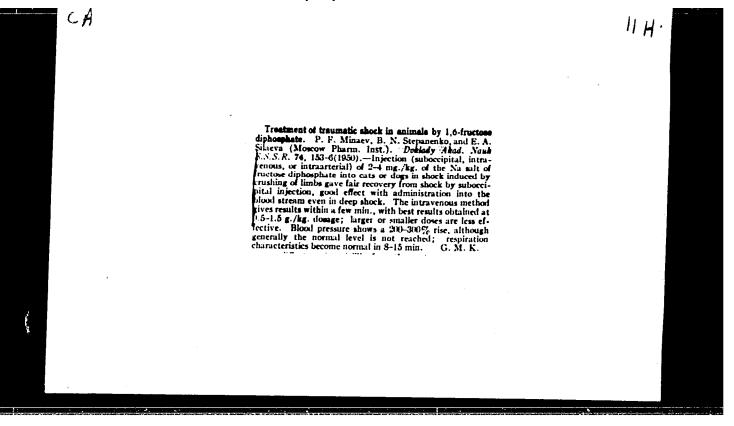


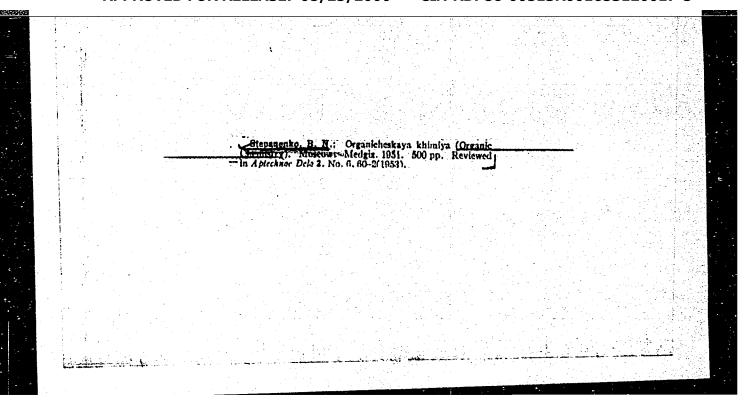
"Study of the Properties of 1,6-Diphosp Fructose (I)," B. B. Stepanenko; Ye. A. Moscow Phar Inst, Min of Pub Health USS Physiol Chem, Acad Sci USSR, 4 pp "Dok Ak Nauk SSSR" Vol IXVIII, No 1 Describes a new method of obtaining sod of I in dry form. Carried out a comparstudy of cleavage of fructose and I. T ducted in Physiol Lab, Inst of Blochem, Sci, showed that I caused 43.75 more mu traction (in frogs) than acetylcholine USSR/Chemistry - Fructose Sugars (Contd) muscle was first treated with a solutio sodium salts of 6-phosphate of glucose Submitted by Acad A. I. Oparin 8 Jul 49 Submitted by Acad A. I. Oparin 8 Jul 49	#105/2	ve. Tr
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"Study of the Properties of 1,6-Diphosphate of Fructose (I)," b. H. Stepanenko, Ye. A. Silaye Moscov Phar Inst, Min of Pub Health USSR, Lab Physiol Chem, Acad Sci USSR, 4 pp "Dok Ak Nauk SSSR" Vol LXVIII, No 1	Describes a new method of obtaining sodium salt of I in dry form. Carried out a comparative study of cleavage of fructose and I. Tests conducted in Physiol Lab, Inst of Biochem, Acad Med Sci. showed that I caused 43.7% more muscle consci.	
"Study of the Properties of 1,6-Diphosphate of Fructose (I)," B. H. Stepanenko, Ye. A. Silaye Moscov Phar Inst, Min of Pub Health USER, Lab Physiol Chem, Acad Sci USER, 4 pp	8	ř.
Tructoes 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1: 1:	Lab	1.2/5/147



CA

Cleavage of sugar hydrazones by aldehydes. If N. Stepanenko and V. A. Ignatyuk-Matstronko. Poklady Abid. Nauk N.N.N.R. 73, 1281-4 (1950). In the preport of terr aldehyde forms of sugars with blocked OH groups, the following scheme was used: Galactors phenylhydrazone, in 148-9°, was accetylated by AccD-pyridine at 0.5° to the pentic-1c derm. in 133-4°. The analogous minimose deep m. 55-65°. Heating these with Bell in 140, BOH, Calladovane, or aq. BOH gave red resins but no hydrazone of Bell could be detected; apparently the free CHO group could not be secured by this method since the intermediate product, presumably a hydrazo compil., cannot evelvire for stabilization. Phenylhydrazones of mannose and galactone are readily cleaved by heating with Bell in solvents conig. Hel), the reaction is nil in nonap solvents. The traction proceeds best in this solves, (1) 100). G. M. K.





CA

New data on the study of glycogen and its biological transformations. B. N. Stepanenko, A. N. Petrova, and E. L.

Rozenfel'd. Isrest. Abad. Nauk S.S.S.R., Ser. Biol. 1951, No. 1, 89-106; cf. C.A. 43, 7980i; 9100b.—The results of the earlier studies on glycogen are summarized as follows. The color produced by I-glycogen system and the intensity of color depends exclusively on the length of glycogen side chains. Enzymic reduction of chain length causes the side chains. Enzymic reduction of chain length causes the side chains. Enzymic reduction of chain length causes the side chains. Braymic reduction of chain length causes the systems protein mols. play a role affecting the course of systems protein mols. Play a role affecting the course of systems protein mols. Thus myosine accelerates phosphorolysis of glycogen but does not affect the reaction of alkali-treated glycogen. While glucose is the final product or a 2-step process in which α-samylase first yields maltose which is cleaved by maltase. The new enzyme, amylose shomerase, having the properties of a globulin, has been solitonerase, having the properties of a globulin, has been solitonerase of glycogen residues by β-amylase so that by successive addns. of the enzyme it is possible to cleave glycogen to fermentable sugars. The isomerase is remarkably stable being only partly inactivated by 100° in 0.5 hr. Expts. with D₂O tracing in frog glycogen is rice showed that during liver-glycogen decline not only its breakdown but a simultaneous biosynthesis of the substance occurs; this event cannot be detected except by tracer methods. The mechanism of glycogen cleavage is discussed.

CIA-RDP86-00513R001653120017-5" APPROVED FOR RELEASE: 08/25/2000

STEPAMENKO, B. N. Reviews in detail the present status of the problem other data will help in raising the starch content. mation in potatoes was carried out at the Inst of A number of interesting investigations on starch formillion hectares were planted under potatoes before World War II and the acreage was 5% higher in 1950. of phytochem starch formation. Biochem imeni Bakh, Acad Sci USSR. This work and past 10 yrs, the starch content is often inadequate. alc, which may serve as raw material for synthetic "Starch and Its Formation in Potatoes," B. N. Step-anenko, Ye. L. Rosenfel'd, A. N. Petrova, A. V. USSR/ Biology (Agriculture) - Starch From rubber. Meld from I hectare corresponds to 1,600 liters of Potatoes are a very important crop in the USSR; 7.7 Kotel'nikova, Moscow "Uspekh Sovrem Biol" Vol XXXII, No 5, pp 193-231 USSR/Biology (Agriculture) - Starch From While yields were raised by 21% during the Potatoes Potatoes (Contd) Sep/Oct 51 Sep/Oct 51 1981

STEPANENKO, B.N.; KRYUKOVA, G.K.

Technique of \$\beta\$-phenyl \$\beta\$-glucoside synthesis. Doklady Akad. Nauk S.S.S.R. 86, (MLRA 5:9)
333-5 '52.
(CA 47 no.22:12262 '53)

- 1. STEPANENKO, B. N.; AFANASEVA, YE. M.
- 2. USSR (600)
- 4. Amylose
- 7. Structure of amylose of potato tubers, Dokl. AN SSSR, 86, No. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953, Unclassified.

STEPANENKO, B.N.: AFANAS YEVA, YE. A.

Starch

Studying starch fractions of the potato tuber during ripening. Dokl. AN SSSR 86, no. 6, 1952.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

STEPANEMKO, B. N.

Syntheses of some halogen-substituted phenol β-D-glucosides. B. N. Stepanenko and G. K. Krypkova. Doklady Akad: Nawk S.S.S. R. 89, 885-8(1953); cl. Pischer and Birauss, C.A. 7, 87.—Heating 3.9 g. pentaacetylglucose, 5.2 g. 2,4,6-1,CalisoH, and 0.2 g. p-MeCaH₃SO₃H in 50 ml. CaH₃ 3 hrs. with stirring, washing the product with 14,0 and evapg, the org. layer gave 23% 2,4,6-triioo-phenyl β-D₃lucoside letraacetale (1), needles, m. 153-4-6 phenyl β-D₃lucoside letraacetale (1), needles, m. 153-4-6 (from BtOH), [a]²³ -8.8° (CaH₃). The glucoside reduces Pehling solu. in cold and in hot solu., and the reduction is more energetic after preliminary hydrolysis with 10% HCl. A similar reaction with 2,4,6-tribromoresorcinol, m. 111°, A similar reaction with 2,4,6-tribromoresorcinol, m. 111°, available of the phenomeration of the phenomeration with 2,4,6-tribromoresorcinol, m. 111°, available of the phenomeration of the reduction is more energetic and the reduction is more energetic phenomeration of the phenomeration of the reduction is more energetic phenomeration of the reduction of the reduction is more energetic phenomeration of the reduction of the phenomeration of the reduction of the reduction is more energetic phenomeration of the reduction of the phenomeration of the phenomeration of the reduction of the phenomeration of the reduction of the reduction

STEPANENKO, B.N.; AFANAS YEVA, Ye.M.

Formation of glycogens in various species of animals. Doklady Akad. nauk SSSR 90 no.6:1095-1098 21 June 1953. (CIML 25:1)

1. Presented by Academician A. I. Oparin 8 May 1953. 2. Laboratory of Physiological Chemistry of Academy of Sciences USSR.

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STEPANENKO, B.N. (Moskva)

Work of M.V. Nenskiy on the chemistry of pyrrole pigments. Usp.biol.
khim. 2:7-26 '54. (MIRA 12:12)

(PYHROLES,
research of M.V. Nentskii on pyrrole pigments)

(PIGMENTS,
research of M.V. Nentskii on pyrrole pugments)

(BIOGRAPHIES,
Nentskii, M.V., bibliog.)

(BIOGRAPHIES,
Nentskii, M.V.)
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STEPANENKO, B. N.

USSR/Blochemistry

Card 1/1

Authors

: Stepanenko, B. N. and Kainova, A. S.

Title

: Study of synthetic glycogens.

Periodical.

: Dokl. AN SSSR, 95, 6, 1263 -1266, 21 Apr 1954

Abstract

: Description of an experimental study of four synthetic glycogens is given in the article. The experiment was performed by the method of fermentation in vitro with the help of two muscular ferments (phosphorylase and "isomese" of amylase). Tables and diagrams.

Institution

. . . .

Submitted

: 28 Jan 1954

STEPANENKO, B.N.

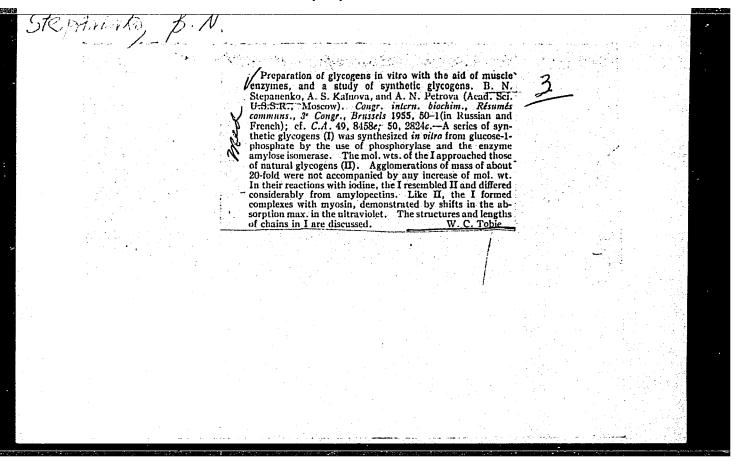
[Prepatation of glycogens in vitro by means of muscle ferments and the study of synthetic glycogens; reports and papers of the Third International Congress of Biochemistry, Brussels, 1-6 August, 1955] Preparativnoe poluchenie glikogenov i vitro pri pomoshchi myshechnykh fermentov i izuchenie sinteticheskikh glikogenov; soobshcheniia i doklady na III Mezhdunarodnom biokhimicheskom kongresse, Briussel', 1-6 avgusta 1955 g. Moskva, Izd-vo Akad.nauk SSSR, 1955. 28 p.
[Parallel texts in Russian and French]. (MIRA 11:6)
(GLYCOGEN)

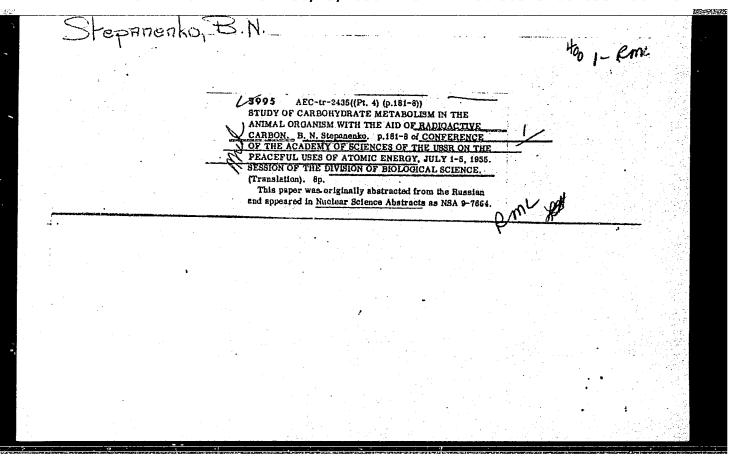
STEPANEOKO, Boris Nikolayevich.

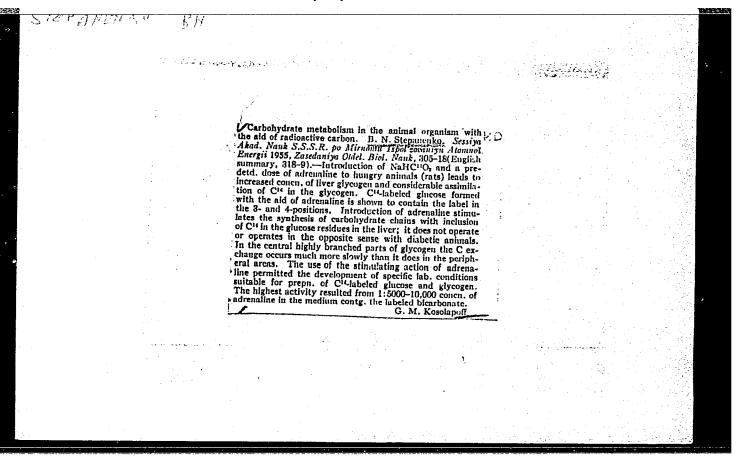
[Organic chemistry for students of pharmaceutic institutes] Kurs organicheskoikhimii dlia sudentov farmatsevticheskikh institutov.

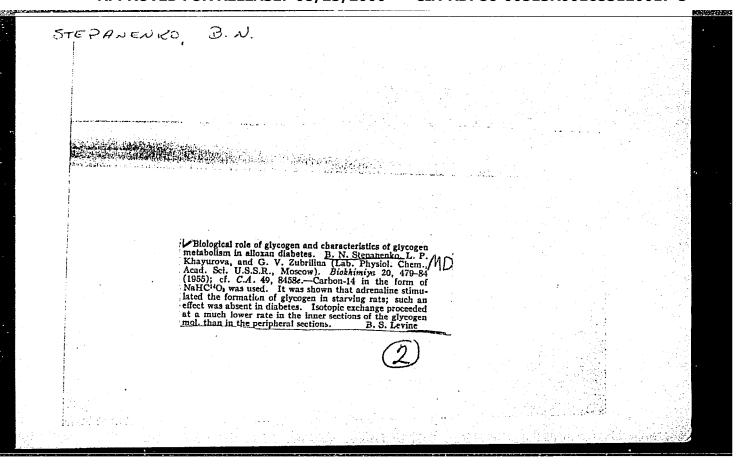
Moskva, Medgiz, 1955. 658 p. (MIRA 11:9)

(Chemistry, Organic)









STEPANENKO, B.N., doktor biologicheskikh nauk

Book on theoretical problems in biochemistry ("Biochemistry of metabolism." N.M.Sisakian. Reviewed by B.N.Stepanenko). Vest.

AN SSSR 25 no.9:111-115 S'55. (MLRA 8:12)

(Metabolism) (Sisakian, N.M.)

STEPANENKO B. N.

USSR/Chemistry - Biochemistry

Card 1/1

Pub. 22 - 32/54

Authors

: Stepanenko, B. N.; Zubrilina, G. V.; and Khayurova, L. P.

Title

Glycogen metabolism in normal state and during alloxan diabetes investigated by means of radioactive carbon

Periodical :

Dok. AN SSSR 100/3, 521-524, Jan 21, 1955

Abstract

Glycogen metabolism was investigated in healthy adult rats and in rodents inflicted with alloxan diabetes. The experiments were conducted by means of radioactive C14 and the results obtained are described. One USSR reference (1953). Tables.

Institution:

Academy of Sciences USSR, Laboratory of Physiological Chemistry

Presented by:

Academician A. I. Oparin, September 2, 1954

BELITSER, V.A.; KOTEL'NIKOVA, A.V.; LYUBIMOVA, M.N.; SEVERIN, S.Ye.;

STEPARRIKO, B.N.; ENGEL'GARDT, V.A.

Second International Conference on Lipids and the Third International Biochemical Congress. Vop.med.khim. 2 no.1:73-79 Ja-F '56.

(GHENT--LIPIDS--CONGRESSES) (MIRA 9:9)

(BRUSSELS--BIOCHEMISTRY--CONGRESSES)

USSR / Human and Animal Physiology. Heart.

 \mathbf{T}

Abs Jour : Ref Zhur - Biol., No 15, 1958, No. 70134

Author : Turpayev, T. M.; Borbova, L. N.; Stepanonko, B. N. Inst : Academy of Sciences USSR

Titlo : The Action of Phosphorylated Carbohydrates on the

Myocardium

Orig Pub : Dokl. AN SSSR, 1956, Vol 109, No 5, 1077-1080

Abstract : The 1,6-diphosphate of fructose (I) in a concentration of

0.2 percent produces initially a transient sharp increase in the amplitude of ventricular contractions of the isolated frog heart, then a brief suspension of contraction, and finally, a stable, prolonged increase in strength of contractions. The duration of the third phase depends on

the concentration of I. Other phosphorylated hoxesos show a vory feeblo effect on the contractile properties of

myocardium. -- M. F. Merezhinskiy

Card 1/1

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Lab Phys Cheur, AS USSR

N/5 614.12 .S8 1957

STEPAREDKO, FURIS HIROLAYEVICH

ORBALICHESKAVA KHILITA (UCHEBUTK) (ORBALIC CHIESTRY; TESTEGOK) 2. 120. MOSKVA, FEOGIZ, 1957. his n. ILLUS., GIAGRI., FORTS., TAYLES

The Alling, D. H.

的表现的现在分词 (1985年) (1985年) [1985年 - 1985年 - 198

"Influence of adrenaline on fixation of carbon dioxide in a normal and diabetic unimal," a paper submitted at the International Conference on Redioisotopes in Scientific Research, Paris, 9-20 Sep 57.

WMCERPIA MEDICA Sec 2 Vol 12/1 Physiology Jan 59

17. SOME RESULTS IN THE STUDY OF CHEMICAL STRUCTURE OF GLY-COGENS (Russian text) - Stepanenko B. N. - IZV, AKAD, NAUK SSSR (Mosk.) 1957, 6 (706-717) Graphs 5 Tables 4 Ilius, 44

The difference between glycogens from frog and rabbit liver was demonstrated by the colour of their respective iodine complexes. The maximum extinction for frog iologlycogen was 4800 A, and that of rabbit 5000 A. The products obtained at varying stages of enzymic degradation of the liver glycogens were also treated with iodine in exactly the same way; their absorption spectra were markedly different. It is deduced from these experiments that the external amylose chains of rabbit glycogen are longer than those of frog glycogen. No glucose was detected after periodate oxidation and chromatography, confirming the absence of 1-2 or 1-3 glucoside bonds in glycogen. Molecular weights of rabbit and frog glycogens were both in the range 0.25 x 106 to 1.13 x 106. The mean lengths of unit chains for freg and rabbit were 11 and 13-14 residues respectively, while the external and internal branches were 6-7 and 3 for frog glycogen and 8-9 and 4-5 for rabbit glycogen, corresponding to the results obtained in the iodine reaction. A short account is given by the author and coworkers of the synthesis of a glycogen-type polysaccharide from glucose-1-phosphate by means of freshly prepared muscle phosphorylase which produces amylose type units; and secondly of amylose isomerase which produces branched polyglucosides. The synthesis, which was 'seeded' by a small quantity of glycogen, was activated by eysteine. Samples of 500-1000 mg. synthetic glycogen obtained by this means were not uniform in constitution, but molecular weights, determined by the method of Meier and by a new method of the authors, showed that they were of the same order of magnitude as natural glycogens. Mean anit chain lengths of synthetic material ranged from 15.6 to 23 residues, while the mean lengths of internal and external branches were 7.2 to 11.5. The spectral absorption curve of the todo derivative of synthetic glycogen is very near that of natural glycogen and lower than that of iodo derivative of potato amylopectin. Both synthetic and natural glycogen form complexes with myosin, shifting the UV absorption maximum of the latter. Following administration of NaHCl4O3 to rats, radioactive glycogen was obtained. By enzymic degradation, the external branches of the glycogen were found to be 4 times more radioactive than the internal branches. These facts suggest a mode of glycogen biosynthesis.

Edward - Montreal

STEPANENKO, B.N.: AFANAS'YEVA, Ye.M.

Studying the structure and iodine reaction of amylopectins and crystalline amylases of potato tubers during their maturation in fertilized and unfertilized fields [with summary in English]. Biokhimiia 22 no.1/2:305-318 Ja-F *57. (MLRA 10:7)

1. Laboratoriya fiziologicheskoy khimii Akademii nauk SSSR, Moskva.
(POTATOES) (AMYLOPECTINS) (AMYLASES)

STEPHNENKO, B.N.; BOBROVA, L.N.

Method for producing stable forms of the sodium salt of fructose

1, 6-dephosphate (sodium-DFF) [with summary in English]. Biokhimite
22 no.6:1019-1022 H-D '57.

1. Leboratoriya fiziologicheskoy khimii *kademii neuk SSSR, Moskva.

(FRUCTOSE, related compounds,

1,6-diphosphate, prod. of stable prep. (Rus))

STEPANERKO, B.N., prof., otvetstvennyy red.; MEYSEL', M.N., prof., otvetstvennyy red.; KOVAL'SKIY, V.V., prof., otvetstvennyy red.; BAYEV, A.A., kand.biol.nauk, red.; MEDVEDEVA, G.A. kand.biol.nauk, red.; TURPAYEV, T.M., kand.biol.nauk, redaktor; PASHKOVSKIY, Yu.A., redaktor izd-ya; PRUSAKOVA, T.A., tekhn.red.

[Study of the animal organism; Fish culture; Food industry; proceedings of a conference] Izuchenie zhivotnogo organizma. Rybnoe khoziaistvo, Pishchevaia promyshlennost; trudy konverentsii. Moskva, Izd-vo Akad. nauk SSSR, 1958. 263 p. (MIRA 11:5)

1. Vsesoyuznaya nauchno-tekhnicheskaya konferentsiya po primeneniyu radioaktivnykh i stabil'nykh izotopov i izlucheniy v narodnom khozyaystve i nauke, 1957.

(Radioactive tracers)

STEPANENKO, B.N.

AUTHOR:

None Given

30-58-5-14/36

TITLE:

In the Department of Biological Sciences (V otdelenii biolo-

gicheskikh nauk)

PERIODICAL:

Vestnik Akademii Nauk SSSR, 1958,

Nr 5, pp 60-62

(USSR)

ABSTRACT:

The secretary V. A. Engel'gardt, Member, Academy of Sciences, USSR reported on the work of the department and its institutions in the year 1957. He emphasized a number of serious deficiencies of the biological institutions of the AS. Above all there are not enough rooms for new as well as for already existing institutes and laboratories. The Botanical, Zoological and Soil Institute urgently need experimental field bases. Working cycles on the electron-microscopic investigation of the functional structure of muscles were terminated as well as on the radiographic investigation of collagen and on the determination of the mechanisms of the biological influence of ultrasonics. The gradual theory of the propagating excitation by the deceased D. N. Nasonov was further developed. Treatises on the part played by inner-secretory glands in the development of organisms and on the resistance to cold of insects were published. Further different researches are also mentioned which are performed at

Card 1/5

In the Department of Biological Sciences

表现的对象的现在分词是是一种主义的特殊的特殊的对象的对象的,但是是一种自己的对象的对象的。

30-58-5-14/36

present. In 1957 the 24-th volume "Flora of the USSR", the 4-th volume "Flora of Spore Plants" and a chart of the vegetation Kazakhstan on a large scale were of Central Asia and Southern edited. The 15-th volume of the treatise "Trematodes of Animals and Man" was published. In the past year new biological institutions were established: the Institute for Cytology on the basis of the Laboratory of the same name, the northern branch of the Forestry Institute in Arkhangel'sk, the Kuybyshev Station of the Institute for Biology of Water Reservoirs and some new laboratories. In Moscow an international symposium on the formation of life was called. In a special information V. A. Engel'gardt outlined the plan of the development of biological sciences for the years 1959-1965. V. N. Sukachev, Member, Academy of Sciences, USSR reported on the work of biologists in 1957, where he pointed out the lack of specialists in the fields of cytology, biophysics, paleontology, botanics, zoology and some others. The following persons participated in the discussions: 1) G. Ya. Bey-Biyenko, Corresponding Member, Academy of Sciences, USSR spoke on tasks in connection with the establishment of the Siberian Branch. 2) B. N. Stepanenko, Doctor of Biological Sciences, emphasized

Card 2/

In the Department of Biological Sciences

30-5 8-5-14/36

the importance of an increase in contact of biology with chemistry.

- 3) G. K. Khrushchov, Corresponding Member, Academy of Sciences, USSR and a number of other speakers also spoke on the necessity of strengthening the contacts between biologists and physicists as well as chemists. He called it an essential disadvantage that the office of the department in its activity mainly restricted to scientific-organizational problems, which was supported by several other speakers.
- 4) A.A. Imshenetskiy, Corresponding Member, Academy of Sciences, USSR, advocated the opinion that the office of the department should take up everything new in science and that it should act as initiator in the posing of new principal scientific problems. He made the proposal to introduce prize competitions for the best works.
- 5) E. A. Asratyan, Corresponding Member, Academy of Sciences, USSR emphasized the one-sided development of physiology in the country and stated that neurophysiology is developed to a very limited extent.
- 6)N. M. Sisakyan, Corresponding Member, Academy of Sciences, USSR emphasized the nedessity of creating connections between the scientific institutions of the department and the councils

Card 3/5

STEPANENKO, B.N. BOBROVA, L.N.

The "sodium-DPP" preparation (sodium salt of fructose diphosphate) and its practical use and "ZSC" (zymostimulator cordis), the new "yeast" stimulant of cardiac activity. Izv. AN SSSR. Ser. biol. no.5:597-609 S-0 '58. (MIRA 11:10)

 Laboratoriya fiziologicheskoy khimii AN SSSR. (FRUCTOSE PHOSPHATES) (CARDIAC GLYCOSIDES)

B. N. STEPANENKO, Ye. M. AFANAS'YEVA and R. A. BAKSOVA

"On the chemical nature of a new polysaccharide"

The Chemistry and Metabolism of Carbohydrates in Animal and Plant Organisms. Conference in Moscow. January 28 to January 30 1958.

(VAN SSSR, NO 6, 1958)

STEPANENICO, B.N

SUV/ 30-53-6-30/45

AUTHOR:

Sergiyenko, I. Z.

TITLE:

The Chemistry and Metabolism of Carbohydrates in Animal and Plant Organisms (Khimiya i obmen uglevodov v zhivotnom i rastitel'nom organizmakh) Conference in Moscow (Konferentsiya

v Moskve)

PERIODICAL:

Vestnik Akademii nauk SSSR, 1958, Nr 6, pp. 112-114

(USSR)

ABSTRACT:

This conference took place from January 28 to January 30. It was organized by the Laboratory for Physiological Chemistry of the AS USSR and was attended by about 200 specialists, among them organochemists, biochemists, physiologists, pharmacologists, histologists and physicians who represented various scientific institutions of the AS USSR, of the Academy of Medical Sciences of the USSR, of the VASKhNIL, of a number of universities and other colleges, as well as of branch institutes from all the country. It was open'd by the Director of the Laboratory for Physiological Chemistry B. N. Stepanenko. He stressed in his detailed report among other things the

Card 1/5

great theoretical interest in the investigation of the ab-

SOV/30-53-6-30/45

The Chemistry and Metabolism of Carbohydrates in Animal and Plant Organisms. Conference in Moscow

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solute formation of simple carbohydrates. New and great success was achieved in the field of the O- and N-glycosides. He reported on some important results of the work in laboratories. Furthermore the following reports were heard:

- 1) S. N. Danilov: On the reaction of the simultaneous oxidation and regeneration in a group of carbohydrates.
- 2) Yu. A. Zhdanov: On the use of different methods of synthesis.
- 3) B. N. Stepanenko, L. K. Kryukova, O. G. Serdyuk: On investigations carried out in the field of some O- and N-glycosides.
- 4) O. K. Orlova: On 2 new diphtheria bacilli.
- 5) Ye. K. Alimova: On carbohydrates in the structure of diphtheria bacilli.
- 6) S. A. Neyfakh and M. P. Mel'nikova: On enzymatic members.
- 7) V. S. Il'in: On the importance of hexokinase reaction.

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50 γ 30-58-6-30/45 mal and Plant Organisms.

The Chemistry and Metabolism of Carbohydrates in Animal and Plant Organisms. Conference in Moscow

- 8) N. K. Nagradova: On the properties of the effect of the dehydrase of phosphorus-glycerin aldehyde.
- 9) A. P. Barkhash: On the method of the conversion of glucose.
- 10) A. N. Petrov: On the presence of a phosphorus-less method of synthesis in the liver.
- 11) M. I. Prokhorova and Z. N. Tupikova: On the intensity of the carbohydrate metabolism in organs.
- 12) B. I. Khaykina: On the velocity of the regeneration of free and bound glycogene fractions.
- 13) Ye. L. Rozenfel'd: On the function of animal organisms.
- 14) M. G. Shubich: On the results of the histochemical investigation of the glycogene of muscular tissue.
- 15) R. A. Rutberg: On the importance of polysaccharides in the investigation of the blood system.

Card 3/5

16) G. Ya. Rozenberg and T. V. Polyshina: On the production, the

507/30-53-6-30/45

The Chemistry and Metabolism of Carbohydrates in Animal and Plant Organisms. Conference in Moscow

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properties and characteristics of Soviet dextrin.

- 17) A. N. Petrova: On the problems of the pathology of carbo-hydrate metabolism.
- 18) S. M. Leytes and N. T. Smirnova: On the effect of the antidiabetic preparation BZ-55.
- 19) A. V. Kotel'nikova and G. D. Krechetova: On special problems of the pathology of carbohydrate metabolism.
- 20) B. N. Stepanenko, Ye. M. Afanas'yeva and R. A. Baksova: On the chemical nature of a new polysaccharide.
- 21) O. A. Pavlikova and M. V. Turkina: On conversions of saccharose in plant tissues.
- 22) D. I. Lisitsin, M. S. Bardinskaya, M. I. Smirnova-Ikonnikova, Yu. V. Peruanskiy, G. A. Lukovnikova and V. I. Ivanov: On carbohydrates of plant origin.

In the resolution the achievements as well as the shortcomings were mentioned. A commission for the coordination of work was founded.

Card 4/5

STEPANENEO, B.N., AFANS YEVA, Ye.M., BAKSOVA, R.A.

Chemical nature of eremuran, a new polysaccharide from the roots of Eremurus regelii [with summary in English]. Biokhimiia 23 no.5:713-720 S-0 !58 (MIRA 11:11)

1. Laboratoriya fiziologicheskoy khimii AN SSSR i Moskovskoy farmatsevticheskiy institut, Moskva.

(PLANTS,

Eremurus regelii, isolation & chem. of polysaccharide eremuran (Rus))

(POLYSACCHARIDES,

eremuran, chem. & isolation from Bremurus regelli (Rus))